

	<h1>Technical Data</h1>	<b>Code:</b>	D-QS-09
		<b>Revision:</b>	02
	<b>Exceliner FRP Panels</b> Wall Panel - Class C – Embossed and Smooth	<b>Effective since:</b>	15-Jul-2019
		<b>Page:</b>	1 of 2

### 1. Product description.

Exceliner Fiberglass Reinforced Polyester (FRP) Wall Panels, manufactured by Stabilit America, Inc. are available in textured and smooth surfaces, provide ultimate durability, satisfying the most demanding applications. Exceliner FRP panels will not mold, mildew, rot or corrode. Exceliner FRP panels are engineered to provide durability, easy cleaning and maintenance.

### 2. Purpose.

Exceliner FRP panels are designed for indoors wall finishes that require a class C fire rating product. Exceliner FRP Panels are ideal for high traffic areas in Commercial, Industrial and Agro-Industrial applications where durability, hygiene, easy cleaning, easy maintenance and abrasion resistance are required: offices, restaurants, supermarkets, food processing areas, storage areas, car washes, restrooms, and many others.

Exceliner FRP panels also recommended for Residential use like garages, play rooms, bathrooms, laundry rooms, etc.

### 3. Physical Properties - Typical Values

0.090in Nominal Thickness - FCF/MFCF 0.090 F-5038		
Property	Value	Test Method
Flexural Strength	17,000 psi	ASTM D790
Flexural Modulus	6.0 x 10 <sup>5</sup> psi	ASTM D790
Tensile Strength	8,000 psi	ASTM D638
Tensile Modulus	9.43 x 10 <sup>5</sup> psi	ASTM D638
% Elongation	1.20 %	ASTM D638
Izod Impact	7.0 ft-lb/in	ASTM D256
Coefficient of Linear Thermal Expansion	2.22 x 10 <sup>-5</sup> in/in/°F	ASTM D696
Barcol Hardness	30	ASTM D2583
Abrasion Resistance	0.293 % Wt. Loss	Taber Test
Water Absorption	0.17% - 72 hr @ 77°F	ASTM D570
Specific Gravity	1.6138	ASTM D792
Flame Spread	≤ 200	ASTM E84
Flame Spread	≤ 140	CAN/ULC S102-10
Smoke Development Index	< 450	ASTM E84
Smoke Developed	≤ 135	CAN/ULC S102-10

### 4. Selections

Nominal Thickness	Series	Finish	Color <sup>Δ</sup>	Sizes <sup>Δ</sup>
0.090 in	1200	Embossed / Smooth	Bright White Almond Ivory Beige Light Gray Silver Black	4 ft x 8 ft 4 ft x 9 ft 4 ft x 10 ft 4 ft x 11 ft 4 ft x 12 ft

<sup>Δ</sup>Custom Capabilities: other sizes and colors are available, minimum order requirements and other terms apply

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		<b>Page:</b>	2 of 2

## 5. Standard Specifications

- a) Exceliner FRP panels conform to the specification set on ASTM D5319:
  - Flammability Classification: Class C - Flame spread index 76 to 200, smoke development index of 450 or less.
  - Thickness classification: Grade 6 - 0.081 to 0.099 in. (2.06 to 2.51 mm); 0.090 in. nominal (2.29 mm) (data valid only for 1200 series panels).
  - Size (Length and Width): Specified length and width  $\pm 1/8$  in.
  - Squareness:  $\pm 1/8$  in.
  - Thickness: Specified thickness  $\pm 10$  %.
- b) Color: Panel color shall be per specification. Within 1 dE of the specified color using the CIELab scale.
- c) Panels shall have a pebble texture or smooth texture front side. Panel backside is smooth and may possess slight imperfections that do not adversely affect performance or physical properties and are not cause for rejection.
- d) Panels shall be installed in strict accordance with Exceliner FRP panel Installation Instructions (D-SA-01).

## 6. Approvals and Certifications

- a) Manufactured on an ISO 9001 Certified plant (TÜV Rheinland of North America, Inc.; Certificate Registration No. 74 300 3629).
- b) Certified Product under Greenguard and Greenguard Gold criteria (Certificates Number: 23966-410 and 23966-420).
- c) Meets USDA/FSIS requirements.
- d) Canadian Food Inspection Agency and Agriculture Canada approved.
- e) Meets minimum requirements of major model building codes for Class C interior wall and ceiling finishes of flame spread  $\leq 200$ , smoke developed index 450 or less (per ASTM E84).
- f) Tested per CAN/ULC S102-10, Flame spread=140; Smoke developed=135
- g) Mold & Mildew Resistant per ASTM D3273 and D3274 tests.

## 7. Storage Recommendations

- a) Store panels indoors in a cool, dry, well-ventilated area.
- b) Panels should be stacked on skids not more than 5 skids high.
- c) Do not allow moisture to collect on or in-between panels.

## 8. Installation Overview

- a) Safety: Use eye protection. Wear filter mask to cover nose and mouth, especially when cutting panels.
- b) Tools Required: Power saw (carbide tip), saber saw (metal cutting blade), caulking gun, tape measurer, drill, file, hammer, level, saw horses and supports.
- c) Preparation: It is important to store Exceliner FRP flat, on a clean, dry surface for 24 hours before installation. It is preferable to store them inside the actual area of installation or, at least, under similar climate conditions. Walls must be clean and free of all substances. Level any high or low spots on walls. Concrete block walls may require a leveling coat of plaster or other similar material.
- d) Inspection: Carefully inspect all panels prior to installation. If any portion of material does not provide an acceptable appearance, Stabilit America, Inc should be notified immediately. Upon verification of unacceptability, that portion of material will be replaced by Stabilit America, Inc. Stabilit America, Inc's responsibility is for the replacement of defective materials but not for labor or other handling or installation expenses.
- e) Limitations: Exceliner FRP panels shall maintain its performance characteristics and physical properties in temperatures ranging from -40°F to 130°F. Exceliner FRP panels may discolor near heat sources such as: ovens, fryers, heat lamps and toasters, where temperatures exceed 130°F.



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